CLAIMS

- 1. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets based on chitosan or a basic chitosan derivative according to a dripping method, characterized in that
- a) an aqueous solution or dispersion is prepared wherein
- chitosan or the basic chitosan derivative
- one or more active substances,
- an acid, having a boiling point of maximally 140°C,
- possibly further auxiliary substances are present predominantly in solution,
- b) the aqueous solution or dispersion is dripped into a cooling liquid having a temperature of maximally -5°C and is thereby solidified in the form of droplets;
- c) the solidified droplets or pellets are isolated and
- d) dried, and the acid is removed from the pellets.
- 2. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to Claim 1, characterized in that the drying of the isolated pellets is carried out by means of a freeze-drying process.
- 3. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the cooling liquid has a temperature of less than -15°C.
- 4. Process for the manufacture of porous, rapidly disintegrating, active substance containing pellets according
 to any one of the preceding claims, characterized in that
 the cooling liquid is a liquefied gas or a liquefied gas
 mixture.

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- 5. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the cooling liquid is liquid air or liquid nitrogen.
- 6. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the droplet size is 0.3 to 5 mm in diameter.
- 7. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the chitosan or chitosan derivative employed has a molar mass of more than 40,000.
- 8. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the chitosan or chitosan derivative used has a molar mass of more than 75,000.
- 9. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the chitosan or chitosan derivative used has an acetylation degree of 10 to 50%.
- 10. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the chitosan or chitosan derivative employed has an acetylation degree of 20 to 45%.

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- 11. Process for the manufacture of porous, rapidly disintegrating, active substance-containing pellets according to any one of the preceding claims, characterized in that the basic chitosan derivative is an acylated chitosan.
- 12. Porous active substance-containing pellets which disintegrate in physiological liquids within several minutes and are based on chitosan or a basic chitosan derivative, characterized in that the pellets are manufactured by means of a process according to one of the preceding claims.
- 13. Porous, rapidly disintegrating, active substance-containing pellets according to claim 12, characterized in that they have a zetapotential of +0.5 to +50 mV.
- 14. Porous, rapidly disintegrating, active substance-containing pellets according to claims 12 or 13, characterized in that they have an average particle size of 0.3 to 5 mm in diameter.
- 15. Porous, rapidly disintegrating, active substance-containing pellets according to claims 12 to 14, characterized in that they have an average particle size of 0.8 to 3 mm in diameter.
- 16. Porous, rapidly disintegrating, active substance-containing pellets according to claims 12 to 15, characterized in that for purposes of application they are present in a hard capsule.
- 17. Porous, rapidly disintegrating, active substance-containing pellets according to claims 12 to 15, characterized in that prior to intake they are placed in a liquid in which they disintegrate.
- 18. Use of the pellets according to claims 12 to 17 for manufacturing a medicament or a diagnostic agent.